Diffraction grating blank feeder mechanism - has additional crank and connecting rod on same shaft as first crank and rod

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Patent Family

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SU 446395	A	19750418				197538	B

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Abstract:
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The additional crank and rod connect to the carriage 2 feed screw 1. The drive carriage 2 stops before the indexing carriage 7, further movement of the latter being along the former, thus eliminating influence of the drive carriage on blank setting up accuracy. The mechanism incorporates crank 3, rod 4 and rack 5 drive for the indexing carriage 7 screw 6, and crank 8, rod 9 and rack 10, both cranks being on shaft 11 driven by motor 12. Gears 13, 14 pawls 15, 16 ratchets 17, 18 and worm gears 19, 20 drive screws 1, 16 and the carriages, which are connected by springs 21. The blank 22 position is controlled by a grating interferometer sensor comprising reflecting diffraction grating 23 fixed to bed 24 and transparent index 25 on carriage 7. The sensor controls clutch 26.

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